MI200-S2 Series Intelligent detectors with advanced protocol

The MI200-S2 detectors have two integral tri-colour LEDs that provide 360° local visual indication of the device status. The LEDs are programmable with static or blinking red, amber and green status indications available. All MI200-S2 detectors are environmentally friendly and meet the WEEE and RoHS legislative requirements, minimising end of life disposal costs, and are mechanically and electrically backwards compatible with existing devices.

The MI200-S2 detectors include the standard protocol as well as the new advanced protocol for enhanced communication with future Morley-IAS panels, offering more features.

- New mechanical platform with revolutionary chamber offering 3 doors:
  - Improved false alarm immunity
  - Improved detection across multiple fire types
  - Improved resilience to false alarms through dust reduced risk of false alarms through insects
- Includes advanced protocol
- Available with standard short circuit isolator with status control using the Advanced protocol
- Tri colour LED offering red, green and amber colour
- Rotary decade address switches 0 - 159
- Pure white colour to complement modern buildings
- 100% mechanical and electrical backwards compatibility
- New base design to complement the detector

Specifications

- Max Wire Gauge for Terminals: 2.5mm²
- Colour: Pure white
- Material: PC/ABS
- Operating voltage range: 15 to 28.5VDC
- Isolation Current: 15mA at 24VDC
- Maximum continuous current: 1A (Switch closed)
- Temperature range: -30°C to +70°C
- Humidity: 10 to 93% relative humidity (non-condensing)
- Approved to: EN54 (LPCB & CPD)

Pure white

MI-PSE-S2   Digital optical detector

The MI-PSE-S2 photoelectric smoke detector has a completely new detection chamber design, the result of many years of research and development. This delivers improved responsiveness, reduced sensitivity changes caused by settling dust and reduced false alarms resulting from insect ingress and other debris. The plug-in unit uses sophisticated processing circuitry that incorporates smoothing filters to help eliminate transient environmental noise conditions that can be the cause of unwanted alarms. The devices are managed by embedded software running complex algorithms that further improve resilience to false alarms and improve detection speed.

The MI-PSE-S2 has two integral tri-colour LEDs that provide 360° local visual indication of the device status. The LEDs are programmable with static or blinking red, amber and green status indications available.

Specifications

- Weight: 97g (base inc)
- Dimensions (Ø x h):   102 mm x 43 mm in base B501AP
- Approved to: EN54-7, EN54-5

CPD number: 0786-CPD-20745

MI-PSE-S2I   Digital optical detector with isolator

CPD number: 0786-CPD-20739

MI-FHSE-S2   **Digital 58°C thermal detector**

The MI-FHSE-S2 is fixed temperature intelligent sensors employing low mass thermistors and microprocessor technology for fast response and linear temperature sensing. Their linear response allows these sensors to be used to signal temperatures over the range of 58°C (Class A1S) to 78°C (Class BS).

Specifications

- Weight: 88g (without base)
- Dimensions (Ø x h):   102 mm x 61 mm in base B501AP
- Approved to: EN54-5. Class A1S

CPD number: 0786-CPD-20746

MI-FHSE-S2I   **Digital 58°C thermal detector with isolator**

CPD number: 0786-CPD-20740

MI-HTSE-S2   **Digital 78°C thermal detector**

The MI-HTSE-S2 is fixed temperature intelligent sensors employing low mass thermistors and microprocessor technology for fast response and linear temperature sensing. Their linear response allows these sensors to be used to signal temperatures over the range of 58°C (Class A1S) to 78°C (Class BS).

Specifications

- Weight: 88g (without base)
- Dimensions (Ø x h):   102 mm x 61 mm in base B501AP
- Approved to: EN54-5. Class BS

CPD number: 0786-CPD-20747

MI-HTSE-S2I   **Digital 78°C thermal detector with isolator**

CPD number: 0786-CPD-20741

MI-RHSE-S2   **Digital R.O.R. thermal detector**

The MI-RHSE-S2 uses the same thermistor and microprocessor technology to provide an alarm when the rate of rise in temperature exceeds 10°C/minute (typical) or if the temperature exceeds a threshold of 58°C (Response Class A1R). With the implementation of the Advanced Protocol, any model can be software configured to be either a fixed 58°, a fixed 78° unit or a 58° with rate of rise device. For backwards compatibility and approval continuity, three separate versions continue to be available as separate part numbers.

Specifications

- Weight: 88g (without base)
- Dimensions (Ø x h):   102 mm x 61 mm in base B501AP
- Approved to: EN54-5. Class A1S

CPD number: 0786-CPD-20748

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MI-RHSE-S2I	**Digital R.O.R. thermal detector with isolator**

CPD number: 0786-CPD-20742

MI-PTSE-S2	**Digital multi (O/T) detector**

The multi-criteria multi-sensor MI-PTSE-S2 Photo Thermal detector uses thermal assistance to the core photoelectric smoke detector to give enhanced false alarm immunity and faster response to a wide range of incipient fires. The plug-in unit combines two separate sensing elements that are managed by embedded software to act as a single unit. The MI-PTSE-S2 conforms to EN54-5, a 58°C fixed temperature and rate of rise thermal assistance conforming to EN54-7. The thermal detection function combines thermistor technology with a software corrected linear temperature response.

Specifications

- Weight: 97g (base inc)
- Dimensions (Ø x h):   102 mm x 43 mm in base B501AP
- Approved to: EN54-7, EN54-5

CPD number: 0786-CPD-20744

MI-PTSE-S2I	**Digital multi (O/T) detector with isolator**

CPD number: 0786-CPD-20738

MI-PTIR-S2	**Digital multi (O/T/IR) detector**

The MI-PTIR-S2 multi-criteria, multi-sensor Photo Thermal Infra Red detector is the environmentally friendly alternative to the ionisation detector, a technology that is now over sixty years old. The MI-PTIR-S2 offers comparable speed of response to the ionisation technology for a fast flaming fire and is less susceptible to false alarms. It can be deployed with confidence in locations where the main risk is from fast-developing flaming fires. MI-PTIR-S2 moves the goalposts in the fight against false alarms in the core detector space by delivering enhanced false alarm immunity. In addition to being an effective alternative to ionisation units, MI-PTIR-S2 offers better performance over the alternative technologies of dual angle or dual wavelength optical detectors and photo-thermal detectors.

Specifications

- Weight: 102g (base inc)
- Dimensions (Ø x h):   102 mm x 63 mm in base B501AP
- Approved to: EN54-7, EN54-5

CPD number: 0786-CPD-20643

MI-PTIR-S2I	**Digital multi (O/T/IR) detector with isolator**

CPD number: 0786-CPD-20737

Detector Series for Retrofit & Black ceilings

- New mechanical platform with revolutionary chamber offering 3 doors:
  - Improved false alarm immunity
  - Improved detection across multiple fire types
  - Improved resilience to false alarms through dust reduced risk of false alarms through insects
- Includes advanced protocol
- Available with standard short circuit isolator with status control using the Advanced protocol
- Tri colour LED offering red, green and amber colour
- Rotary decade address switches 0 - 159
- Ivory colour to complement with retrofit installations using ivory bases and detectors.
- 100% mechanical and electrical backwards compatibility

The MI200-S2 detectors have two integral tri-colour LEDs that provide 360° local visual indication of the device status. The LEDs are programmable with static or blinking red, amber and green status indications available. All MI200-S2 detectors are environmentally friendly and meet the WEEE and RoHS legislative requirements, minimising end of life disposal costs, and are mechanically and electrically backwards compatible with existing devices.

Specifications

- Max Wire Gauge for Terminals: 2.5mm²
- Material: PC/ABS
- Operating voltage range: 15 to 28.5VDC
- Isolation Current: 15mA at 24VDC
- Maximum continuous current: 1A (Switch closed)
- Temperature range: -30°C to +70°C
- Humidity: 10 to 93% relative humidity (non-condensing)
- Approved to: EN54 (LPCB & CPD)

Ivory

MI-PSE-S2-IV	**Digital optical detector, ivory**
MI-PSE-S2I-IV	**Digital optical detector with isolator, ivory**
MI-FHSE-S2-IV	**Digital 58°C thermal detector, ivory**
MI-FHSE-S2I-IV	**Digital 58°C thermal detector with isolator, ivory**
MI-HTSE-S2-IV	**Digital 78°C thermal detector, ivory**
MI-HTSE-S2I-IV	**Digital 78°C thermal detector with isolator, ivory**
MI-RHSE-S2-IV	**Digital R.O.R. thermal detector, ivory**
MI-RHSE-S2I-IV	**Digital R.O.R. thermal detector with isolator, ivory**
MI-PTSE-S2-IV	**Digital multi (O/T) detector, ivory**
MI-PTSE-S2I-IV	**Digital multi (O/T) detector with isolator, ivory**
MI-PTIR-S2-IV	**Digital multi (O/T/IR) detector, ivory**
MI-PTIR-S2I-IV	**Digital multi (O/T/IR) detector with isolator, ivory**

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